

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:

**April
2012**

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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State of California
Department of Water Resources
P.O. Box 942836
Sacramento, CA 94236-0001

Or call the DWR Publications Desk at (916) 653-1097

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MARK COWIN, Director

Department of Water Resources
LAURA KING MOON, Chief Deputy Director

PAUL HELLIKER Deputy Director	GARY BARDINI Deputy Director	CARL TORGERSEN Deputy Director	VACANT Deputy Director	KATHIE KISHABA Deputy Director
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DIVISION OF OPERATIONS AND MAINTENANCE

David Duval..... Chief, Division of Operations and Maintenance

This report was prepared under the direction of

David Roose..... Chief, Operations Control Office
John Leahigh..... Principal Engineer, Water Operations Office
Tracy Hinojosa Supervising Engineer, Regulatory Compliance and Reporting Branch
Guy Masier..... Senior Engineer, Data Management Section

By the Reporting Section

(Vacant)..... Section Chief, Reporting Section
Michael Nolasco..... Water Resources Engineering Associate (Specialist)
Mary Valdez Water Resources Engineering Associate (Specialist)
Clay Thomas Water Resources Engineering Associate (Specialist)

The organization shown above represents staff and positions relevant to this report as of month of publication on February, 2014. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities, actions, and conditions that affected State Water Project operations during April 2012:

Statewide precipitation was about 75 percent of average for the 2011 - 2012 water-year through April 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at:
[“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State. Snow pack water content for April 2012 was about 40 percent of average compared to 185 percent at this time in 2011. This was about 30 percent of the April 1 average, the normal date of maximum accumulation.

Cumulative unimpaired runoff for the Sacramento River Region for the 2011 - 2012 water-year was 8.5 maf, 64 percent of average. Statewide runoff for the 2011 - 2012 water-year was 65 percent of average.

Statewide reservoir storage was 115 percent of average to date. Total storage in major SWP reservoirs at the end of April was about 4.80 maf compared to 4.99 maf at this time in 2011. On April 30, end-of-month storage at Lake Oroville was about 3.42 maf, as compared to 3.30 maf at this time in 2011. The State share of San Luis Reservoir's end-of-month storage was about 919 taf, as compared with 1.06 maf at this time in 2011. The combined storage in SWP's southern reservoirs was about 463 taf, compared with about 628 taf at this time in 2011.

SWP water deliveries to date through April were about 962 taf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2011 were 1.21 maf.

COA conditions remained “In Excess” with accounting suspended in April. “Excess” conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports. The end-of-month USBR COA balance remained at 1,292 cfs in favor of the USBR, throughout the month.

There were four measurable earthquakes within the vicinity of the SWP during April; however, no facilities were found to meet inspection criteria. On April 2, Mojave Plant was out of service, for the day, for insulator work. On April 3 and 7, weed control forced Las Perrillas out of service for portions of each day. On April 13, a lightning strike, shortly after midnight, forced South Bay Unit 5 out of service. The unit was back in service by 1017 hours. On April 25, Badger Hill Unit 2 was returned to service after being out since April 17, 2012, due to speed control.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Mar 31	5001.31	21,929									
1	5001.31	21,929	0	5	0	0	0	3	8	8	
2	5001.48	22,085	156	5	0	0	0	3	8	87	
3	5001.79	22,370	285	5	0	0	0	3	8	152	
4	5001.95	22,518	148	5	0	0	0	3	8	83	
5	5002.04	22,601	83	5	0	0	2	3	10	52	
6	5002.10	22,657	56	5	0	0	3	3	11	39	
7	5002.15	22,704	47	5	0	0	7	3	15	39	
8	5002.18	22,732	28	5	0	0	33	3	41	55	
9	5002.20	22,750	18	5	0	0	37	3	45	54	
10	5002.23	22,778	28	5	0	0	41	3	49	63	
11	5002.25	22,797	19	5	0	0	44	3	52	62	
12	5002.27	23,041	244	5	0	0	47	3	55	178	
13	5002.27	23,041	0	5	0	0	47	3	55	55	
14	5002.53	23,059	18	5	0	0	50	3	58	67	
15	5002.53	23,059	0	5	0	0	50	3	58	58	
16	5002.53	23,059	0	5	0	0	50	3	58	58	
17	5002.55	23,078	19	5	0	0	53	3	61	71	
18	5002.57	23,097	19	5	0	0	56	3	64	74	
19	5002.64	23,163	66	5	0	0	67	3	75	108	
20	5002.74	23,257	94	5	0	0	85	3	93	140	
21	5002.80	23,314	57	5	0	0	96	3	104	133	
22	5002.89	23,399	85	5	0	0	114	3	122	165	
23	5002.97	23,475	76	5	0	0	131	3	139	177	
24	5002.96	23,466	-9	5	0	0	129	3	137	132	
25	5002.92	23,428	-38	5	0	0	120	3	128	109	
26	5003.16	23,656	228	5	0	0	178	4	187	302	
27	5003.07	23,570	-86	5	0	0	153	4	162	119	
28	5002.96	23,466	-104	5	0	0	129	4	138	86	
29	5002.90	23,409	-57	5	0	0	116	4	125	96	
30	5002.85	23,361	-48	5	0	0	106	4	115	91	
Total cfs-days				---	150	0	0	1,944	95	2,189	
Total ac-ft				1,432	297	0	0	3,856	188	4,341	
										5,773	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Right	Water Supply Contract					
Mar 31	5581.24	45,429									
1	5581.24	45,429	0	2	0	0	0	4	6	6	
2	5581.29	45,499	70	2	0	0	0	4	6	41	
3	5581.34	45,569	70	2	0	0	0	4	6	41	
4	5581.42	45,681	112	2	0	0	0	4	6	62	
5	5581.47	45,751	70	2	0	0	0	4	6	41	
6	5581.49	45,779	28	2	0	0	0	4	6	20	
7	5581.50	45,793	14	2	0	0	0	4	6	13	
8	5581.52	45,821	28	2	0	0	0	4	6	20	
9	5581.54	45,849	28	2	0	0	0	5	7	21	
10	5581.57	45,892	43	2	0	0	0	5	7	29	
11	5581.61	45,948	56	2	0	0	0	5	7	35	
12	5581.66	46,018	70	2	0	0	0	5	7	42	
13	5581.69	46,060	42	2	0	0	0	5	7	28	
14	5581.75	46,145	85	2	0	0	0	5	7	50	
15	5581.78	46,187	42	2	0	0	0	5	7	28	
16	5581.81	46,230	43	2	0	0	0	5	7	29	
17	5581.83	46,258	28	2	0	0	0	5	7	21	
18	5581.87	46,314	56	2	0	0	0	5	7	35	
19	5581.92	46,385	71	2	0	0	0	5	7	43	
20	5581.95	46,428	43	2	0	0	0	5	7	29	
21	5582.00	46,498	70	2	0	0	0	5	7	42	
22	5582.07	46,598	100	2	0	0	0	5	7	57	
23	5582.12	46,668	70	2	13	0	0	5	20	55	
24	5582.13	46,683	15	2	19	0	0	5	26	34	
25	5582.03	46,541	-142	2	40	0	0	5	47	-25	
26	5582.09	46,626	85	2	40	0	0	5	47	90	
27	5582.08	46,612	-14	2	40	0	0	5	47	40	
28	5582.05	46,569	-43	2	27	0	0	5	34	12	
29	5582.05	46,569	0	2	15	0	0	5	22	22	
30	5582.08	46,612	43	2	15	0	0	5	22	44	
Total cfs-days				---	60	209	0	0	142	411	1,008
Total ac-ft				1,183	119	415	0	0	282	816	1,999

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Mar 31	5770.06	65,734									
1	5770.06	65,734	0	10	0	0	0	12	22	22	
2	5770.08	65,804	70	10	0	0	0	12	22	57	
3	5770.10	65,875	71	10	0	0	0	12	22	58	
4	5770.19	66,193	318	10	0	0	0	12	22	182	
5	5770.21	66,263	70	10	0	0	0	12	22	57	
6	5770.22	66,299	36	10	0	0	0	12	22	40	
7	5770.21	66,263	-36	10	0	0	0	12	22	4	
8	5770.21	66,263	0	10	0	0	0	12	22	22	
9	5770.21	66,263	0	10	0	0	0	12	22	22	
10	5770.22	66,299	36	10	0	0	0	12	22	40	
11	5770.24	66,369	70	10	0	0	0	12	22	57	
12	5770.29	66,546	177	10	0	0	0	12	22	111	
13	5770.35	66,756	210	10	0	0	0	12	22	128	
14	5770.37	66,830	74	10	0	0	0	12	22	59	
15	5770.37	66,830	0	10	0	0	0	12	22	22	
16	5770.39	66,901	71	10	0	0	0	12	22	58	
17	5770.40	66,937	36	10	0	0	0	12	22	40	
18	5770.44	67,079	142	10	0	0	0	12	22	94	
19	5770.48	67,222	143	10	0	0	0	12	22	94	
20	5770.51	67,329	107	10	0	0	0	12	22	76	
21	5770.55	67,472	143	10	0	0	0	12	22	94	
22	5770.59	67,614	142	10	0	0	0	12	22	94	
23	5770.63	67,757	143	10	0	0	0	12	22	94	
24	5770.64	67,793	36	10	0	0	0	12	22	40	
25	5770.70	68,008	215	10	0	0	0	12	22	130	
26	5770.97	68,981	973	10	0	0	0	12	22	513	
27	5771.06	69,306	325	10	0	0	0	12	22	186	
28	5771.09	69,415	109	10	0	0	0	11	21	76	
29	5771.10	69,451	36	10	0	0	0	11	21	39	
30	5771.11	69,488	37	10	0	0	0	11	21	40	
Total cfs-days				---	300	0	0	357	657	2,550	
Total ac-ft				3,754	595	0	0	709	1,304	5,058	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes 0 AF Plumas County and 0 AF Grizzly Ranch.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Mar 31	859.84	2,942,527										
	1	861.25	2,962,116	19,589	2,886	2.00	0	0	0	2,888	0	22,477
	2	862.40	2,978,161	16,045	3,174	2.00	0	0	238	0	3,414	0
	3	863.49	2,993,426	15,265	2,534	2.00	0	0	45	0	2,581	0
	4	864.57	3,008,605	15,179	2,225	2.00	0	0	202	0	2,429	0
	5	865.40	3,020,307	11,702	3,646	2.00	0	0	120	0	3,768	0
	6	866.13	3,030,625	10,318	3,604	2.00	0	0	45	0	3,651	0
	7	866.90	3,041,537	10,912	1,385	2.00	0	0	60	0	1,447	0
	8	867.67	3,052,475	10,938	1,151	2.00	0	0	45	0	1,198	0
	9	868.26	3,060,876	8,401	3,110	2.00	0	0	265	0	3,377	0
	10	868.84	3,069,150	8,274	3,179	2.00	0	0	83	0	3,264	0
	11	869.36	3,076,582	7,432	5,032	2.00	0	0	83	0	5,117	0
	12	870.19	3,088,470	11,888	2,901	2.00	0	0	76	0	2,979	0
	13	871.09	3,101,398	12,928	7,366	2.00	0	0	0	0	7,368	0
	14	872.03	3,114,941	13,543	2,235	2.00	0	0	15	0	2,252	0
	15	872.93	3,127,946	13,005	1,710	2.00	0	0	38	0	1,750	0
	16	873.57	3,137,218	9,272	3,863	2.00	0	0	0	0	3,865	0
	17	874.26	3,147,237	10,019	2,873	2.00	0	0	116	0	2,991	0
	18	875.19	3,160,775	13,538	3,275	2.00	0	0	23	0	3,300	0
	19	875.45	3,164,568	3,793	2,494	2.00	0	0	217	0	2,713	0
	20	877.01	3,187,389	22,821	2,497	2.00	0	0	171	0	2,670	0
	21	878.13	3,203,846	16,457	2,515	2.00	0	0	78	0	2,595	0
	22	879.34	3,221,693	17,847	2,590	2.00	0	0	78	0	2,670	0
	23	880.49	3,238,719	17,026	3,544	2.00	0	0	600	0	4,146	0
	24	881.89	3,259,538	20,819	599	2.00	0	0	198	0	799	0
	25	883.26	3,280,005	20,467	2,532	2.00	0	0	143	0	2,677	0
	26	886.25	3,324,993	44,988	2,373	1.00	0	0	80	0	2,454	0
	27	888.36	3,357,004	32,011	1,884	1.00	0	1	145	0	2,031	0
	28	890.00	3,382,038	25,034	1,345	2.00	0	1	145	0	1,493	0
	29	891.31	3,402,129	20,091	982	2.00	0	1	145	0	1,130	0
	30	892.61	3,422,152	20,023	1,918	2.00	0	1	370	0	2,291	0
Total				479,625	81,422	58	0	4	3,824	0	85,308	0
1/ Includes bypass flows.												
2/ South Feather Water and Power Agency.												
3/ Evaporation will be zero for days when there is precipitation or heavy overcast.												
4/ Does not include pumpback.												

1/ Includes bypass flows.

2/ South Feather Water and Power Agency.

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

April 2012

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Mar 31	24,797										
1	24,701	-96	2,886	485	0	2,181	0	3	1,361	0	78
2	24,695	-6	3,174	485	0	2,429	0	3	1,359	0	126
3	24,450	-245	2,534	485	0	1,873	0	3	1,355	0	-33
4	24,238	-212	2,225	485	0	1,546	0	3	1,369	0	-4
5	24,429	191	3,646	485	0	2,818	0	3	1,363	0	244
6	24,556	127	3,604	485	0	2,499	0	3	1,355	0	-105
7	24,381	-175	1,385	485	0	580	0	3	1,359	0	-103
8	24,103	-278	1,151	485	0	557	0	3	1,357	0	3
9	24,364	261	3,110	11	0	1,363	0	3	1,359	0	-135
10	23,886	-478	3,179	0	0	1,839	0	3	1,361	0	-454
11	23,759	-127	5,032	0	0	3,196	0	3	1,367	0	-593
12	24,316	557	2,901	179	0	1,319	1	3	1,371	0	171
13	24,828	512	7,366	477	0	6,434	1	3	1,373	0	480
14	24,692	-136	2,235	475	0	1,887	1	3	1,361	0	406
15	24,651	-41	1,710	468	0	1,077	1	3	1,359	0	221
16	24,664	13	3,863	471	0	3,188	1	3	1,351	0	222
17	24,790	126	2,873	477	0	1,705	1	3	1,355	0	-160
18	24,489	-301	3,275	479	0	613	1	3	1,349	0	-2,089
19	24,311	-178	2,494	478	0	1,614	1	3	1,349	0	-183
20	23,762	-549	2,497	477	0	1,702	1	3	1,353	0	-464
21	23,558	-204	2,515	476	0	1,387	1	3	1,363	0	-441
22	24,244	686	2,590	477	0	1,002	1	3	1,355	0	-20
23	24,217	-27	3,544	477	0	2,834	1	3	1,353	0	143
24	24,107	-110	599	474	0	99	1	3	1,359	0	279
25	24,244	137	2,532	462	0	1,492	1	3	1,355	0	-6
26	25,012	768	2,373	463	0	1,228	1	3	1,357	0	521
27	24,433	-579	1,884	473	0	1,357	1	3	1,351	0	-224
28	25,097	664	1,345	477	0	91	1	3	1,351	0	288
29	24,599	-498	982	477	0	687	1	3	1,341	0	75
30	24,409	-190	1,918	479	0	1,069	0	4	1,349	0	-165
Total		-388	81,422	12,607	0	51,666	18	91	40,720	0	-1,922

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Mar 31	133.77	45,815										
1	133.66	45,384	-431	2,181	0	0	0	0	2,241	0	-371	3,602
2	133.66	45,384	0	2,429	0	0	0	0	2,222	0	-207	3,581
3	133.57	45,034	-350	1,873	0	0	0	0	2,241	0	18	3,596
4	133.36	44,220	-814	1,546	0	0	0	0	2,222	0	-138	3,591
5	133.48	44,684	464	2,818	0	0	0	0	2,222	0	-132	3,585
6	133.55	44,956	272	2,499	0	0	0	0	2,222	0	-5	3,577
7	133.19	43,567	-1,389	580	0	0	0	0	2,241	0	272	3,600
8	132.76	41,934	-1,633	557	0	0	0	0	2,222	0	32	3,579
9	132.58	41,260	-674	1,363	0	0	0	0	2,241	0	204	3,600
10	132.65	41,521	261	1,839	0	0	0	0	2,241	0	663	3,602
11	133.07	43,108	1,587	3,196	0	0	0	0	2,241	0	632	3,608
12	132.96	42,690	-418	1,319	0	0	0	0	2,241	0	504	3,612
13	134.04	46,878	4,188	6,434	0	0	0	0	2,241	0	-5	3,614
14	133.95	46,523	-355	1,887	0	0	0	0	2,241	0	-1	3,602
15	133.62	45,228	-1,295	1,077	0	0	0	0	2,241	0	-131	3,600
16	133.87	46,208	980	3,188	0	0	0	0	2,241	0	33	3,592
17	133.85	46,129	-79	1,705	0	0	0	0	2,241	0	457	3,596
18	133.57	45,034	-1,095	613	0	0	0	0	2,241	0	533	3,590
19	133.47	44,646	-388	1,614	0	0	0	0	2,241	0	239	3,590
20	133.55	44,956	310	1,702	0	0	0	0	2,043	0	651	3,396
21	133.60	45,151	195	1,387	0	0	0	0	1,843	0	651	3,206
22	133.42	44,452	-699	1,002	0	0	0	0	1,837	0	136	3,192
23	133.80	45,932	1,480	2,834	0	0	0	0	1,648	0	294	3,001
24	133.36	44,220	-1,712	99	0	0	0	0	1,446	0	-365	2,805
25	133.54	44,917	697	1,492	0	0	0	0	1,440	0	645	2,795
26	133.51	44,801	-116	1,228	0	0	0	0	1,446	0	102	2,803
27	133.59	45,112	311	1,357	0	0	0	0	1,446	0	400	2,797
28	133.21	43,644	-1,468	91	0	0	0	50	1,450	0	-59	2,801
29	132.99	42,804	-840	687	0	0	0	125	1,446	0	44	2,787
30	132.92	42,538	-266	1,069	303	0	60	150	1,460	0	638	2,809
Total			-3,277	51,666	303	0	60	325	59,989	0	5,734	100,709

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

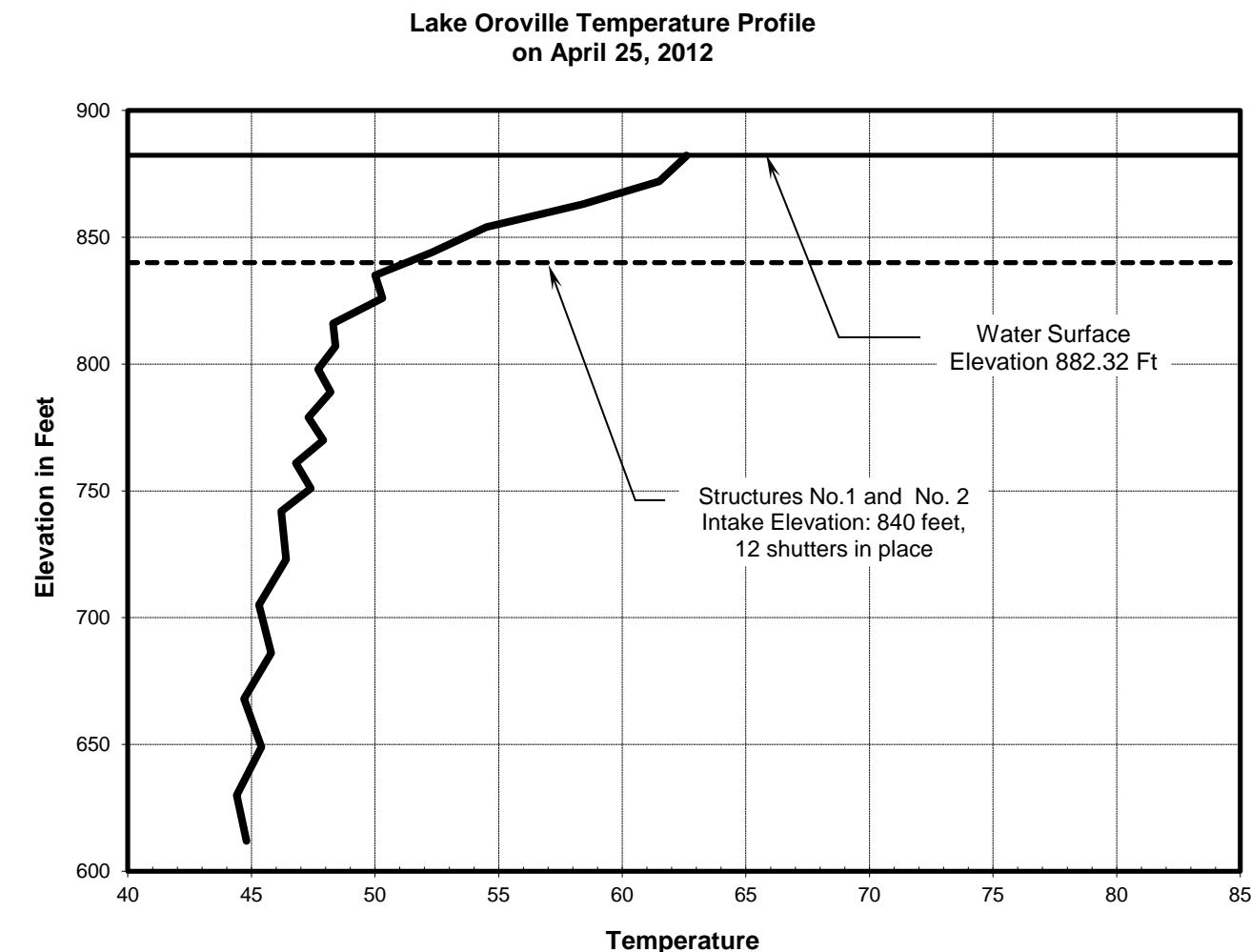
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

April 2012

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	53.5	48.8
2	54.1	49.2
3	54.4	49.1
4	55.3	49.6
5	55.3	49.6
6	55.8	49.5
7	56.1	49.6
8	56.7	50.0
9	56.7	49.9
10	56.4	49.6
11	56.2	49.0
12	55.7	48.9
13	54.6	48.9
14	55.4	48.7
15	55.8	49.5
16	56.3	50.0
17	56.9	50.5
18	57.3	50.6
19	59.3	50.8
20	61.3	51.1
21	61.2	51.3
22	61.6	51.7
23	60.4	51.5
24	60.9	51.9
25	60.9	51.8
26	61.2	51.9
27	62.7	51.7
28	39.6	52.2
29	64.0	52.4
30	63.9	52.7



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

April 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Permit	Article 21	Article 56	Settlement Water	
	No.	Structure	Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	412			38	38		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	0						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	76						
				Solano County Water Agency Fairfield / Vacaville 42"	0						
			17.00	Solano County Water Agency Central Solano	Stub						
2		Cordelia Forebay	21.23		0			51	51		
		Cordelia Pumping Plant & Cordelia Spillway	21.30		314						
3A	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	0			4	4		
				Solano County Water Agency Benicia	102						
		Cordelia Surge Tank	23.33		0			208	208		
		Creston Surge Tank Connection	25.65		0						
			26.95	Napa County Flood Control & WCD American Canyon 2	4						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	0						
			27.60	Napa County Flood Control & WCD American Canyon 1	208						

Table 9. Delta Field Division Plant Data

(in acre-feet)

April 2012

Date	North Bay Aqueduct		California Aqueduct				South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		DMC/CA Intertie (DCI)		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP	Pumped	Released		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	15	0	2,184	2,184	0	0	263	0	0	0
2	17	8	2,184	2,184	0	0	263	0	0	0
3	0	0	1,456	1,456	0	0	303	0	0	33
4	6	10	546	546	0	0	314	0	0	0
5	16	11	2,175	2,175	0	0	312	0	0	0
6	12	1	2,184	2,184	0	0	327	0	0	0
7	20	9	2,184	2,184	0	0	316	0	0	0
8	19	8	4,186	4,186	0	0	306	0	0	0
9	16	4	4,368	4,368	0	0	318	0	0	0
10	17	9	4,368	4,368	0	0	306	0	0	0
11	5	0	3,458	3,458	0	0	295	0	0	0
12	14	13	2,557	2,557	0	0	330	0	0	0
13	7	6	2,184	2,184	0	0	261	0	0	0
14	7	7	4,368	4,368	0	0	262	0	0	0
15	9	11	4,368	4,368	0	0	285	0	0	0
16	0	0	4,368	4,368	0	0	413	97	0	0
17	13	11	3,811	3,811	0	0	486	178	0	0
18	11	9	4,661	4,661	0	0	560	172	0	0
19	14	8	4,369	4,369	0	0	560	200	0	0
20	0	0	3,578	3,578	0	0	611	179	0	0
21	17	14	3,205	3,205	0	0	616	179	0	0
22	9	12	2,239	2,239	0	0	496	179	0	0
23	22	19	1,206	1,206	0	0	496	179	0	0
24	20	22	819	819	0	0	577	178	0	0
25	16	17	1,356	1,356	0	0	593	150	0	0
26	28	23	1,365	1,365	0	0	594	161	0	0
27	20	22	1,356	1,356	0	0	654	179	0	0
28	21	22	1,356	1,356	0	0	582	0	0	0
29	21	19	1,356	1,356	0	0	582	179	0	0
30	20	19	1,729	1,729	0	0	599	0	0	0
Total	412	314	79,544	79,544	0	0	12,880	2,208	0	33

Table 10. Clifton Court Forebay
Daily Operation of Gates

April 2012

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1		19:15									1,981
2	00:01	14:00	16:00	21:20							1,978
3	01:15	14:45	17:00	22:25							1,928
4	02:00	15:30	18:30	21:10							1,983
5	02:45	12:15	15:15	19:50							1,982
6	00:01	04:15	07:15	13:00	16:00						2,360
7		05:00	06:45	13:45	16:45	23:10					2,376
8	00:01	05:45	08:30	14:30	17:30						3,949
9		06:30	09:35	15:30	18:30						3,960
10		07:15	10:00	16:15	19:15						3,964
11		08:15	11:00	17:15	20:15	23:00					3,562
12	00:01	09:30	12:00	18:30							3,567
13	00:01	11:00	13:00	16:38							3,550
14	00:01	12:15	14:15	19:30							3,568
15	00:01	13:30	15:30	21:30							4,541
16	00:30	14:30	16:45	22:10							3,961
17	01:30	15:15	17:45	22:45							3,946
18	00:01	03:00	06:15	12:00	15:00						4,740
19		03:45	06:45	12:30	15:30						4,748
20		04:15	07:00	13:15	16:15	20:44					3,557
21	00:01	04:45	07:30	13:45	16:45						2,368
22		05:30	08:00	10:15							1,381
23	00:01	06:00									1,380
24	00:01	06:30	09:15	10:00							1,378
25	00:01	07:15									1,382
26	00:01	05:41	22:43								1,315
27		05:00	23:07								1,371
28		05:08	21:40								1,384
29		05:09	23:30								1,349
30		05:25									1,361
Total inflow for the month in AF:											80,870

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

April 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			Table A	Article 56C	Local	Loan Water	USBR□			
	No.	Structure											
1A			1.83	Byron-Bethany I.D.	1,417								
1	1	Banks Pumping Plant	3.32		79,544			1,417		56			
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aqueduct)	12,880								
		Check No. 1	5.95										
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0								
	2	Check No. 2	12.01										
	3		12.47	Musco Olive	56								
		Check No. 3	18.29										
	4		22.16	Tracy Golf & Country Club	0								
		Check No. 4	23.99										
2A	5	Check No. 5	29.73										
	6	Check No. 6	34.24										
	7		35.22	Turlock Fruit Company Inflow	0								
		Check No. 7	39.91										
	8		42.46	Oak Flat Water District-A	13		13						
			42.9	Western Hills WD	49								
			43.81	Oak Flat Water District-B	23								
			44.64	Oak Flat Water District-C	23								
		Check No. 8	45.97										
	9		46.18	Oak Flat Water District-D	63		23	23	23	14			
				Oak Flat Totals:	122								
2B		Check No. 9	51.3										
	10	Check No. 10	56.86										
	11	Check No. 11	61.4										
	12		66.14	Veteran's Cemetery	14								
		Check No. 12	66.71		62,457								

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

April 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Article 56	Article 14B	Local	Recreation	
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	12,880	5	528	528	528	528	
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	5						
	2	Check No. 1	3.91								
		Check No. 2	5.21								
	3		7.15	Zone 7 Altamont	0						
2		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0						
				Zone 7 Patterson Project Water	528						
4	Check No. 4	10.68			35	12	7	582	582		
5	Check No. 5	12.29									
6		13.55	Zone 7 Wente #1	35							
		14.16	Zone 7 Wente #2	12							
		14.31	Ising Project Water	7							
	Check No. 6	14.65									
4	7		14.78	Zone 7 Arroyo Mocho Project Water						582	
		Check No. 7	16.38								
	8		16.57	Zone 7 Wente #3	0	8	28	28	28	28	
			16.63	Zone 7 Wente #4	8						
			16.69	Zone 7 Norman Nursery	0						
			16.70	Zone 7 Concannon Project Water	28						
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	2,208						
				Pumped into South Bay Aqueduct	0						
5				Gravity into South Bay Aqueduct	33						
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2		95	292	292	292	292	
				Storage Exchange:	0						
				Project Water	95						
				Storage Released	0						
				Inflow Release	292						
				East Bay Regional Park Dist.							
				Del Valle Recreation	8						
				Zone 7 Wente #5	28						
				So. Livermore Project	1,469						
6	19.20			So. Livermore Inflow Released	0						
				So. Livermore Stored Exchanged	0						
				Zone 7 - Kalthrof Detjens	12						
				ACWD							
7	22.50	La Costa Tunnel		Vallecitos Project Water	0	12	1,469	1,469	1,469	1,469	
				City of San Francisco							
	25.97			San Antonio	0						
8		Mission Tunnel		ACWD - Bayside 1 & 2		1,617	1,617	1,617	1,617	1,617	
				Project Water							
9	28.97	Santa Clara Pipeline		Storage Released	0	853	4,725	4,725	4,725	4,725	
				Storage Exchange:	0						
				S.C.V.W.D. Meter	5,578						

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

Capacity: 77,106 ac-ft

April 2012

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)	
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow		
Mar 31	685.30	28,637										
1	685.41	28,699	62	71	0	0	0	1	8	9	0.56	
2	685.47	28,733	34	35	0	0	0	1	0	1	0.00	
3	685.49	28,744	11	50	0	0	33	1	5	39	0.00	
4	685.49	28,744	0	6	0	0	0	1	5	6	0.13	
5	685.50	28,750	6	10	0	0	0	1	3	4	0.00	
6	685.52	28,761	11	17	0	0	0	1	5	6	0.00	
7	685.53	28,767	6	14	0	0	0	1	7	8	0.00	
8	685.53	28,767	0	7	0	0	0	1	6	7	0.00	
9	685.55	28,778	11	19	0	0	0	0	8	8	0.00	
10	685.59	28,801	23	27	0	0	0	0	4	4	0.00	
11	685.61	28,812	11	12	0	0	0	0	1	1	0.44	
12	685.64	28,829	17	24	0	0	0	0	7	7	0.32	
13	686.10	29,091	261	263	0	0	0	0	2	2	0.95	
14	686.30	29,205	114	116	0	0	0	0	2	2	0.02	
15	686.38	29,251	46	53	0	0	0	0	7	7	0.00	
16	686.63	29,394	143	51	97	0	0	0	5	5	0.00	
17	686.98	29,596	202	31	178	0	0	0	7	7	0.00	
18	687.30	29,781	185	19	172	0	0	0	5	5	0.00	
19	687.69	30,009	227	34	200	0	0	0	7	7	0.00	
20	688.04	30,214	205	33	179	0	0	0	7	7	0.00	
21	688.36	30,402	188	17	179	0	0	0	7	7	0.00	
22	688.66	30,580	177	9	179	0	0	0	10	10	0.00	
23	688.95	30,752	172	5	179	0	0	0	11	11	0.00	
24	689.26	30,937	185	14	178	0	0	0	7	7	0.00	
25	689.52	31,092	156	10	150	0	0	0	4	4	0.00	
26	689.82	31,273	180	27	161	0	0	0	7	7	0.41	
27	690.13	31,460	187	10	179	0	0	0	1	1	0.07	
28	690.44	31,648	188	193	0	0	0	0	5	5	0.00	
29	690.75	31,837	189	17	179	0	0	0	7	7	0.00	
30	690.97	31,971	134	144	0	0	0	0	9	9	0.00	
Total				3,334	1,338	2,208	0	33	8	171	212	2.90

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

April 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Mar 31	222.67	50,166											
1	221.67	47,519	-2,647	0	617	0	2,021	0	1,912	1,930	19	-112	
2	220.21	43,697	-3,822	0	766	0	839	0	1,901	1,805	19	193	
3	219.44	41,708	-1,989	0	769	0	259	0	945	1,220	19	153	
4	219.70	42,376	668	0	647	2,771	375	0	0	3,272	19	-165	
5	220.68	44,923	2,547	0	343	4,040	292	0	0	3,214	3	-174	
6	221.87	48,045	3,122	0	109	4,011	704	0	0	3,179	3	-68	
7	222.75	50,379	2,334	0	279	3,663	743	0	0	3,198	3	-307	
8	221.60	47,336	-3,043	0	492	0	2,280	0	1,930	2,863	3	490	
9	221.99	48,360	1,024	0	546	829	1,755	0	640	1,856	3	-115	
10	222.85	50,646	2,286	0	468	1,987	1,817	0	0	3,268	3	152	
11	222.02	48,438	-2,208	0	362	0	1,963	0	0	3,547	3	112	
12	220.77	45,158	-3,280	0	514	0	517	0	0	2,642	4	-39	
13	222.29	49,155	3,997	0	774	3,000	673	0	0	2,331	4	-97	
14	223.66	52,813	3,658	0	849	1,408	2,164	0	813	1,897	4	137	
15	222.93	50,859	-1,954	0	1,283	0	2,138	0	2,688	1,929	4	215	
16	222.54	49,820	-1,039	0	1,452	0	1,766	0	1,803	2,089	4	154	
17	222.42	49,501	-319	0	728	0	1,505	0	0	2,484	4	94	
18	222.07	48,571	-930	0	116	0	1,759	0	0	2,400	4	60	
19	221.37	46,731	-1,840	0	52	0	1,703	0	0	2,811	16	144	
20	221.66	47,493	762	0	323	1,990	1,535	0	0	3,238	15	-211	
21	221.95	48,255	762	0	952	1,990	1,317	0	0	3,621	15	-239	
22	221.38	46,758	-1,497	0	292	1,990	1,297	101	0	4,116	15	-102	
23	220.27	43,853	-2,905	0	0	1,990	240	223	0	3,434	15	-23	
24	219.94	42,997	-856	0	0	3,497	0	211	0	3,518	15	-185	
25	219.94	42,997	0	0	0	3,995	247	384	0	3,703	15	-140	
26	221.20	46,285	3,288	0	0	5,943	289	438	0	4,129	10	3	
27	221.03	45,839	-446	0	0	5,964	347	439	0	5,932	10	-155	
28	221.13	46,101	262	0	0	5,950	350	393	0	5,660	10	-105	
29	222.04	48,491	2,390	0	64	5,920	265	248	0	4,593	10	-193	
30	223.05	51,180	2,689	0	124	5,783	327	0	0	4,642	10	-226	
Total				1,014	0	12,921	66,721	31,487	2,437	12,632	94,521	281	-749
Mean cfs				---	0	431	2,224	1,050	81	421	3,151	9	-25
Acre-feet				1,014	0	25,630	132,340	62,457	4,833	25,053	187,486	557	-1,484

1/ Pump-in located at Mile 79.67R.

2/ Includes 9 AF delivered to DFG at O'Neill Forebay, 1 AF to Parks & Rec., and 547 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

April 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Mar 31	521.73	1,763,906						
1	521.97	1,766,813	2,907	1,912	0	103	0.0	-343
2	522.22	1,769,842	3,029	1,901	0	124	0.0	-250
3	522.35	1,771,418	1,576	945	0	142	0.0	-8
4	521.90	1,765,965	-5,453	0	2,771	139	0.0	161
5	521.23	1,757,856	-8,109	0	4,040	148	0.0	100
6	520.55	1,749,640	-8,216	0	4,011	164	0.0	33
7	519.92	1,742,040	-7,600	0	3,663	173	0.0	4
8	520.10	1,744,210	2,170	1,930	0	154	0.0	-682
9	520.09	1,744,090	-120	640	829	180	0.0	309
10	519.73	1,739,750	-4,340	0	1,987	157	0.0	-44
11	519.69	1,739,268	-482	0	0	139	0.0	-104
12	519.68	1,739,148	-120	0	0	161	0.0	101
13	519.21	1,733,489	-5,659	0	3,000	184	0.0	331
14	518.98	1,730,721	-2,768	813	1,408	148	0.0	-653
15	519.37	1,735,414	4,693	2,688	0	124	0.0	-198
16	519.61	1,738,305	2,891	1,803	0	141	0.0	-204
17	519.62	1,738,425	120	0	0	161	0.0	221
18	519.59	1,738,064	-361	0	0	158	0.0	-24
19	519.56	1,737,702	-362	0	0	176	0.0	-7
20	519.22	1,733,609	-4,093	0	1,990	186	0.0	112
21	518.87	1,729,399	-4,210	0	1,990	219	0.0	86
22	518.52	1,725,192	-4,207	0	1,990	192	0.0	61
23	518.14	1,720,628	-4,564	0	1,990	204	0.0	-107
24	517.55	1,713,551	-7,077	0	3,497	196	0.0	125
25	516.89	1,705,647	-7,904	0	3,995	186	0.0	196
26	515.89	1,693,694	-11,953	0	5,943	178	0.0	95
27	514.88	1,681,651	-12,043	0	5,964	175	0.0	67
28	513.88	1,669,756	-11,895	0	5,950	207	0.0	160
29	512.91	1,658,246	-11,510	0	5,920	193	0.0	310
30	511.94	1,646,764	-11,482	0	5,783	170	0.5	165
Total			-117,142	12,632	66,721	4,982	0.5	13
Mean cfs			---	421	2,224	166	0.0	0
Acre-feet			-117,142	25,053	132,340	9,878	1.0	24

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 9,044 AF, Casa De Fruta 0 AF, and San Benito 834 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

April 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	3,828	2,627	0	0	3,792	3,792	205
2	3,580	2,389	0	0	3,771	3,771	245
3	2,420	1,893	0	0	1,874	39	282
4	6,490	5,969	5,497	5,497	0	0	275
5	6,375	5,852	8,013	8,013	0	0	293
6	6,306	5,793	7,955	7,955	0	0	326
7	6,343	5,808	7,266	7,266	0	0	343
8	5,679	5,156	0	0	3,828	103	306
9	3,681	3,169	1,645	1,645	1,269	32	357
10	6,483	5,945	3,941	3,941	0	0	312
11	7,035	6,512	0	0	0	0	275
12	5,240	4,033	0	0	0	0	319
13	4,623	3,394	5,951	2,678	0	0	365
14	3,763	2,512	2,792	758	1,612	1,612	293
15	3,827	2,573	0	0	5,331	3,854	245
16	4,144	2,897	0	0	3,576	681	280
17	4,928	2,952	0	0	0	0	319
18	4,760	2,790	0	0	0	0	314
19	5,575	3,660	0	0	0	0	349
20	6,422	4,527	3,947	-522	0	0	0
21	7,183	5,229	3,947	3,947	0	0	803
22	8,165	6,228	3,947	3,947	0	0	381
23	6,812	4,885	3,947	3,947	0	0	404
24	6,978	5,167	6,937	3,043	0	0	388
25	7,345	5,126	7,925	4,029	0	0	368
26	8,189	5,940	11,787	7,868	0	0	353
27	11,767	9,486	11,829	7,886	0	0	348
28	11,227	8,931	11,802	7,848	0	0	410
29	9,110	6,567	11,742	7,770	0	0	383
30	9,208	6,584	11,470	7,509	0	0	337
Total	187,486	144,594	132,340	95,025	25,053	13,884	9,878

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

April 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Mar 31	324.56	19,085					
1	324.53	19,071	-14	0	0	0	-14
2	324.53	19,071	0	0	0	0	0
3	324.53	19,071	0	0	0	0	0
4	324.51	19,062	-9	0	0	0	-9
5	324.48	19,049	-13	0	0	0	-13
6	324.47	19,044	-5	0	0	0	-5
7	324.47	19,044	0	0	0	0	0
8	324.46	19,040	-4	0	0	0	-4
9	324.46	19,040	0	0	0	0	0
10	324.44	19,031	-9	0	0	0	-9
11	324.43	19,026	-5	0	0	0	-5
12	324.44	19,031	5	3	0	0	-1
13	324.47	19,044	13	7	0	0	-1
14	324.45	19,035	-9	0	0	0	-9
15	324.44	19,031	-4	0	0	0	-4
16	324.43	19,026	-5	0	0	0	-5
17	324.43	19,026	0	0	0	0	0
18	324.42	19,022	-4	0	0	0	-4
19	324.42	19,022	0	0	0	0	0
20	324.42	19,022	0	0	0	0	0
21	324.42	19,022	0	0	0	0	0
22	324.41	19,017	-5	0	0	0	-5
23	324.38	19,004	-13	0	0	0	-13
24	324.37	18,999	-5	0	0	0	-5
25	324.37	18,999	0	0	0	0	0
26	324.32	18,977	-22	0	0	0	-22
27	324.31	18,972	-5	0	0	0	-5
28	324.31	18,972	0	0	0	0	0
29	324.31	18,972	0	0	0	0	0
30	324.31	18,972	0	0	0	0	0
Total			-113	10	0	0	-133
Mean cfs			---	0	0	0	---
Acre-feet			-113	20	0	0	-133

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

April 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Mar 31	602.60	826					
1	Not Observed			0	0	0	0
2	Not Observed			0	0	0	0
3	Not Observed			0	0	0	0
4	Not Observed			0	0	0	0
5	Not Observed			0	0	0	0
6	Not Observed			0	0	0	0
7	Not Observed			0	0	0	0
8	Not Observed			0	0	0	0
9	Not Observed			0	0	0	0
10	Not Observed			0	0	0	0
11	Not Observed			0	0	0	0
12	Not Observed			0	0	0	0
13	Not Observed			0	0	0	0
14	Not Observed			0	0	0	0
15	Not Observed			0	0	0	0
16	Not Observed			0	0	0	0
17	Not Observed			0	0	0	0
18	Not Observed			0	0	0	0
19	Not Observed			0	0	0	0
20	602.60	826	0	0	0	0	0
21	Not Observed			0	0	0	0
22	Not Observed			0	0	0	0
23	Not Observed			0	0	0	0
24	Not Observed			0	0	0	0
25	Not Observed			0	0	0	0
26	Not Observed			0	0	0	0
27	Not Observed			0	0	0	0
28	Not Observed			0	0	0	0
29	Not Observed			0	0	0	0
30	602.60	826	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

April 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation					
	No.	Structure												
2B	12	Check No. 12	66.71		62,457			0	1					
3A		San Luis Reservoir		Department of Parks and Recreation	1	9,044	834							
				San Felipe Division Santa Clara Water District	9,044									
				Casa de Fruita Santa Clara Water District	0									
				San Felipe Division San Benito Water District	834									
				Reach 3A Subtotal:	9,879	9,878	0	0	1					
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	1	547	4	0	1					
				Cattle Program										
				Department of Fish & Game	9									
		70.91 Thru 85.08		San Luis Water District		547	0	5	6					
				(Floodwater Inflow)										
				Reach 3 Subtotal:	557	547	0	5	6					
		Dos Amigos Pumping Plant	86.73		187,486									
4	14		89.03	San Luis Water District	5,254	5,254	629	50	88					
			Thru 94.06											
			89.66	Pacheco Water District										
			Thru 89.67											
			89.68	Panoche Water District	629									
			89.70	City of Dos Palos	50	502	2,259	88	3,894					
		Check No. 14	95.06		88									
	15		98.15	San Luis Water District	3,894									
			Thru 104.20											
			96.15	Panoche Water District		502	2,259	0	0					
			Thru 102.64											
			102.64	(Floodwater Inflow)										
			102.64	Broadview Water District	0									
			105.22	Westlands Water District	3,894	3,894	0	0	0					
			Thru 108.64											
		Check No.15	108.50											
			Reach 4 Subtotal:	12,676	12,676	0	0	0	0					
			San Felipe Division Total:	9,878	9,878	0	0	0	0					
			Pacheco Water District Total:	629	629	0	0	0	0					
			Broadview Water District Total:	0	0	0	0	0	0					
			City of Dos Palos Total:	88	88	0	0	0	0					
			SLWD Reach 4 Subtotal:	5,756	5,756	0	0	0	0					
			Panoche Water District Total:	2,309	2,309	0	0	0	0					
			SLWD Total:	6,303	6,303	0	0	0	0					
			Westlands WD Reach 4 Subtotal:	3,894	3,894	0	0	0	0					

Table 19. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
5	16		110.52 Thru 122.05	(Reverse flow, Kings River)	0	8,375			1		
				Westlands Water District	8,375						
				Dept. of Fish and Game @ Lat. 4L	1						
				Dept. of Fish and Game @ Lat. 6L	0						
				Dept. of Fish and Game @ Lat. 7L	0						
			Check No. 16	122.07							
	17		124.18 Thru 132.74	Westlands Water District	5,415	5,415					
				Check No. 17	132.95						
	18		133.81 Thru 142.61	Westlands Water District	6,935	6,935					
				Pleasant Valley Pumping Plant	5,862						
				143.16	City of Coalinga						
				Check No. 18	444						
					Reach 5 Subtotal:	27,032	27,031	0	0		
6	19		145.26 Thru 151.19	GWF Energy	0	3	1/ 175				
				SWP Construction @ Lat. 22R	0						
				City of Huron	3						
				Kings County to Lemoore NAS Through WWD							
				Kings County through WWD 30L	0						
				Westlands Water District	6,162						
				Check No. 19	155.64						
					Reach 6 Subtotal:	6,340	6,165	175	0		
7	20		156.34	City of Huron	85	85					
			156.40	SWP Construction @ Lat. 24R	0						
			Thru 163.69	Westlands Water District	4,047						
			Check No. 20	164.69							
	21		164.79	City of Avenal	178	4,047	178				
			167.04	Westlands Water District	2,338						
			Thru 171.67								
			Check No. 21	172.40	131,492						
				Reach 7 Total:	6,648	6,648	0	0	0		
				SWP Const. / GWF Energy	0						
				Westlands WD Total:	43,028						
				City of Coalinga Total:	444						
				City of Huron Total:	88						
				Kings County to Lemoore NAS Through WWD	175						
				City of Avenal Total:	178						
				Total San Luis Field Division Deliveries:	63,132		62,945	175	5		
									7		

1/ SWP water, from County of Kings to Westlands Water District, Article 56C.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

April 2012

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Mar 31	27,853								
1	28,130	277	0	1,930	104	44	357	1,103	-182
2	28,501	371	0	1,805	104	44	357	841	-272
3	27,108	-1,393	0	1,220	104	44	357	1,005	-412
4	27,666	558	0	3,272	104	44	357	2,022	-464
5	28,275	609	0	3,214	107	37	737	1,852	-174
6	28,191	-84	0	3,179	107	37	737	2,253	-88
7	27,974	-217	0	3,198	107	37	737	2,418	-8
8	28,892	918	0	2,863	107	37	737	1,973	454
9	28,081	-811	0	1,856	107	37	737	1,536	152
10	27,686	-395	0	3,268	107	37	737	2,365	-221
11	28,180	494	0	3,547	107	37	737	2,383	-34
12	28,082	-98	0	2,642	40	14	658	1,990	11
13	28,589	507	0	2,331	40	14	658	1,757	394
14	28,549	-40	0	1,897	40	14	658	1,725	520
15	28,022	-527	0	1,929	40	14	658	1,726	244
16	28,360	338	0	2,089	40	14	658	1,385	179
17	27,664	-696	0	2,484	40	14	658	2,295	172
18	27,899	235	0	2,400	40	14	658	1,311	-258
19	27,788	-111	0	2,811	162	50	811	1,743	-101
20	27,972	184	0	37,166	161	50	811	1,940	-34,112
21	27,836	-136	0	3,621	161	50	811	2,508	-159
22	28,162	326	0	4,116	161	50	811	2,997	68
23	27,934	-228	0	3,434	161	50	811	2,475	-52
24	27,957	23	0	3,518	161	50	811	2,320	-164
25	27,691	-266	0	3,703	161	50	811	2,489	-327
26	27,459	-232	0	4,129	138	57	1,054	2,726	-271
27	28,310	851	0	5,932	138	56	1,054	4,052	-203
28	28,504	194	0	5,660	138	56	1,054	4,158	-156
29	28,422	-82	0	4,593	138	56	1,054	3,657	271
30	28,594	172	0	4,642	138	56	1,054	3,287	-20
Total		741	0	128,449	3,263	1,164	22,140	66,293	-35,213
Mean cfs		---	0	4,282	109	39	738	2,210	-1,174
Acre-feet		741	0	187,486	6,473	2,309	43,914	131,492	-2,557

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 629 AF to Pacheco W.D., 88 AF to the City of Dos Palos and 5,756 AF to San Luis Water District.

3/ Includes 85 AF to the City of Huron, 178 AF to the City of Avenal, 444 AF to the City of Coalinga, 3 AF to City of Huron P&R @ 22R, 175 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 4L, 1 AF to DFG @ 4L, 0 AF to Pilobos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DWR Water Truck @ 22R, 0 AF DFG @ L22R, 0 AF Non-Project Water, 37,166 AF to Westlands Water District and 5,862 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

April 2012

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	229	199	51	46	53	1,774	3,135	3,038	3,104
2	206	204	46	40	46	2,884	2,847	2,707	2,712
3	404	375	40	37	43	2,954	2,782	2,583	2,455
4	412	382	46	39	46	3,497	3,193	2,963	2,817
5	376	367	48	43	49	3,558	3,403	3,212	3,118
6	546	513	53	49	58	3,968	3,685	3,507	3,467
7	436	407	52	44	51	4,644	4,562	4,408	4,427
8	265	262	58	52	60	4,822	4,810	4,624	4,646
9	269	248	66	90	67	3,720	3,813	3,681	3,578
10	326	313	75	67	78	3,886	3,802	3,580	3,352
11	328	313	50	45	50	4,665	4,486	4,317	4,176
12	262	259	51	44	52	4,141	4,442	4,264	4,069
13	187	220	46	42	48	4,149	4,386	4,153	4,163
14	77	85	47	41	46	4,408	5,015	4,918	4,958
15	135	143	46	43	48	4,613	5,115	4,965	4,930
16	220	223	54	47	54	4,123	4,042	4,068	3,840
17	464	451	36	33	38	3,793	4,199	4,049	4,061
18	391	362	63	56	63	3,451	3,951	3,823	3,864
19	224	222	60	54	62	3,658	3,982	3,780	3,792
20	230	221	55	49	56	4,115	4,157	3,936	3,915
21	155	170	60	55	61	5,502	5,431	5,498	5,557
22	389	325	79	70	81	6,246	6,431	6,242	6,177
23	419	344	65	57	68	5,126	4,348	4,188	3,959
24	438	371	51	46	51	3,992	3,703	3,499	3,293
25	448	454	72	66	76	2,731	3,544	3,358	3,171
26	449	453	41	36	44	4,804	4,472	4,282	4,160
27	499	409	51	45	51	6,999	6,800	6,502	6,596
28	432	352	48	42	47	7,659	7,447	7,253	7,163
29	373	357	71	64	75	7,874	7,613	7,476	7,466
30	244	250	54	50	56	6,900	6,808	6,598	6,521
Total	9,833	9,254	1,635	1,492	1,678	134,656	136,404	131,472	129,507

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

April 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Mile			Table A	USBR	Article 56C	Pumpin Recovery	Other		
	No.	Structure										
7	21	Check No. 21	172.40		131,492							
8C	22			Empire West Side Irrig. Dist.	0	226	55		1/ 1 1/ 20 2/ 13 2/ 171 2/ 23 2/ 185 2/ 4 2/ 83			
				172.66	County of Kings TL - A							
				Tulare Lake Basin WSD TL-A	301							
				175.18	Dudley Ridge WD - 1							
				177.54	Dudley Ridge WD - 1B							
				180.64	Tulare Lake Basin WSD - C							
				180.65	Dudley Ridge WD - 1A							
				182.99	Dudley Ridge WD - 2							
				183.00	Tulare Lake Basin WSD TL - B							
					County of Kings TL-B							
31A				184.00	Dudley Ridge WD - Paramount	0	0	0	0	479		
				184.63	Coastal Branch							
8D				184.78	Dudley Ridge WD - 3	83	0	0	0	479		
					Dudley Ridge Reach 8D Total:							
					479							
					Tulare Lake Basin WSD Total:	301	226	55	0	20		
				Check No. 22	184.82							
9	23			189.69	Kern County Water Agency Lost Hills Water Dist. - 1	3,842			3,842			
				191.18	Kern County Water Agency Lost Hills Water Dist. - 2							
				194.22	Kern County Water Agency Lost Hills Water Dist. - 3							
				196.40	Kern County Water Agency Berrenda Mesa - 2							
				196.75	Kern County Water Agency Lost Hills Water Dist. - 4							
					K.C.W.A. Reach 9 Subtotal:		0	0	0	5,332	0	
				197.05								
10A	24			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	668			668			
				202.05	Kern County Water Agency Lost Hills Water Dist. - 5							
				204.69	Kern County Water Agency Lost Hills Water Dist. - 6							
				205.26	Kern County Water Agency Lost Hills Water Dist. - 8							
				207.94								
10A	25			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	1,437			1,437			
				209.78	Kern National Wildlife Refuge USBR BV-1B							
					Kern County Water Agency Buena Vista WSD 1B							
				209.80	KCWA Semitropic WSD ST3							
					KCWA Semitropic WSD ST							
					USBR Total:		0	0	0	7,792	0	
					K.C.W.A. Reach 10A Subtotal:							

1/ Pool A.

2/ Kern Waterbank Recovery.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Article 56C	Pumpin Recovery	Other		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	126			170	7,676		
			214.11	Kern County Water Agency Belridge - 3	170							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	7,676							
				Kern County Water Agency Belridge - 5D	126							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	7,972	126	0	0	7,846	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	206						
				Kern County Water Agency West Kern - 3	206							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	42				2/ 78		
			Check No. 27	231.73								
			235.75	Kern County Water Agency Buena Vista - 2	0							
				Kern County WA CVC	120							
			238.04	DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
		Check No. 28	238.11									
				1/ Arvin Edison Total:	0	42	0	0	0	0		
				Reach 12E Subtotal:	120		42	0	0	78		
13B	29		238.19	Kern Water Bank Inflow	0				105			
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	105							
			243.09	Kern County Water Agency Buena Vista - 3	0							
			Check No. 29	244.54								
			30	249.85	Kern County Water Agency Buena Vista - 4	501						
		Buena Vista Pumping Plant	250.99		134,656	156	345					
				K.C.W.A. Reach 13B Subtotal:	606	156	0	0	450	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0				252			
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	252							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Friant recirculation water. County of Fresno for Arvin-Edison WSD.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2012

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries					
	Beginning and Ending				Table A	USBR	Article 56C	Pumpin Recovery	Other	
	No.	Structure	Mile							
14A	31	Check No. 31	256.14		406					
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3		406				
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4		1,002				
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	1,660	1,408	0	0	252	
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	1,649	1,591			58	
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	373		373			
		Check No. 33	267.36							
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	954	376		578		
		Check No. 34	271.27							
				Reach 14B Total:	2,976	2,340	0	578	58	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	742			648	94	
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	540			452	88	
			277.30	Kern County Water Agency Arvin-Edison WSD	79				1/ 79	
				Reach 14C Total:	1,361	0	0	1,100	182	
	Teerink Pumping Plant		278.13		136,404				79	
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	314			73	241	
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	936			936		
				Reach 15-A Total:	1,250	0	0	1,009	241	
	Chrismar Pumping Plant		280.36		131,472					
16A	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0					
		Check No. 37	283.95							
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	27					
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	65			65		
		Check No. 38	287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	138			138		
		Check No. 39	290.21							
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	820			820		
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	50			50		
				Kern County Water Agency Tehachapi Cummings CWD	734			734		
				K.C.W.A. Reach 16A Subtotal:	1,834	27	0	1,807	0	
17E	Edmonston Pumping Plant		293.45		129,507					

1/ MWD 79 AF Table A sent to Arvin Edison WSD for storage.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

April 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Article 56C	Pumpin Recovery	Other		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02	Green Valley Water District	9,833	926	411	3,918	2,524			
		Las Perillas Pumping Plant	1.16		9,833							
	C-2		3.79		0							
		Badger Hill Pumping Plant	4.27		9,254							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34		Castaic Lake WA (Devil's Den WD #1)							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	411							
			14.83	Kern County Water Agency Berrenda Mesa - 1	6,442							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		1,635							
				K.C.W.A. Reach 31A Subtotal:	6,853	4,329	0	2,524	0	0		
				K.C.W.A. Total:	37,962	8,634	0	7,018	22,153	157		
33A	C-7	Bluestone Pumping Plant	19.05	(CCWA) Polonio Pass Treatment Plant	1,492	1,330	285	0	0			
	C-8	Polonio Pass Pumping Plant	26.54		1,678							
	C-9	Tank Site 1	27.81									
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,330							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	285	1,330	285	0	0			
		Energy Dissipater	78.12									
		Lopez T.O.	85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	1,615	1,615	0	0	0			
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0							
38				SBCFC & WCD Total:	0							
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

April 2012

Date	West Branch						East Branch						East Branch Extension				
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pump-back 1/	Bypass	Tehachapi Afterbay	Generation	Leakage	Bypass Flume						
1	1,531	1,136	0	0	822	0	1,519	0	0	1,268	1,490	0	0	804	41	41	31
2	1,314	1,392	0	0	1,800	0	823	0	578	1,237	815	0	0	924	55	54	32
3	1,367	1,412	0	0	1,615	0	973	0	0	952	1,197	0	0	1,062	52	52	32
4	1,351	1,344	0	0	1,363	0	1,530	0	0	1,503	1,453	0	0	1,688	41	41	31
5	1,327	1,263	0	0	2,270	0	1,762	0	0	1,552	1,649	0	0	1,827	41	41	31
6	1,193	1,312	0	0	2,627	0	1,945	0	0	1,620	1,493	0	0	1,992	42	42	29
7	1,325	1,500	0	0	1,199	0	2,907	0	223	2,899	2,933	0	0	1,950	54	54	31
8	1,571	737	0	0	126	0	2,841	0	0	2,592	2,634	0	0	2,041	58	58	32
9	1,652	1,730	0	0	1,975	0	2,306	0	0	2,319	2,298	0	0	1,668	42	42	32
10	1,328	1,336	0	0	2,035	0	1,745	0	0	1,546	1,665	0	0	2,735	41	42	32
11	1,446	1,216	0	0	2,075	0	2,685	0	0	2,503	2,403	0	0	2,196	42	42	32
12	1,327	1,304	0	0	2,882	0	2,698	0	0	2,250	2,402	0	0	2,218	53	53	32
13	1,310	1,505	0	0	713	0	2,118	0	362	2,506	2,326	0	0	2,266	58	58	32
14	1,444	1,433	0	0	210	0	1,419	0	1,835	3,243	3,366	0	0	1,986	46	46	33
15	1,578	1,189	0	0	150	0	2,806	0	347	2,995	3,077	0	0	2,061	41	41	32
16	1,731	1,489	0	0	947	0	2,464	0	0	2,142	2,255	0	0	2,056	46	46	33
17	1,536	1,477	0	0	2,513	0	2,297	0	0	2,247	2,208	0	0	2,285	58	58	31
18	1,321	1,496	0	0	1,181	0	1,894	0	521	2,417	2,096	0	0	2,103	54	54	31
19	1,641	1,953	0	0	3,801	0	1	0	2,215	2,285	2,396	0	0	2,222	42	42	30
20	1,634	1,925	0	0	2,152	0	1,248	0	777	2,064	2,141	0	0	2,237	42	42	31
21	2,784	2,593	0	0	276	0	2,467	0	0	2,254	2,254	0	0	2,384	41	42	31
22	3,410	2,481	0	0	127	0	2,727	0	0	2,689	2,647	0	0	2,266	54	54	31
23	3,142	3,281	0	0	3,845	0	892	0	0	740	678	0	0	1,833	48	48	32
24	2,649	3,281	0	0	3,201	0	248	0	0	0	0	18	0	1,809	42	42	31
25	2,999	3,279	0	0	3,522	0	363	0	0	0	17	0	0	1,731	61	54	31
26	3,457	3,279	0	0	1,668	0	926	0	0	689	513	0	0	1,648	69	58	31
27	3,088	3,281	0	0	4,195	0	2,966	0	102	2,934	2,939	0	0	2,821	65	58	31
28	3,291	3,280	0	0	3,226	0	2,928	0	825	3,492	3,433	0	0	3,111	55	55	31
29	3,409	3,282	0	0	3,172	0	2,953	0	645	3,709	3,634	0	0	2,914	41	42	31
30	2,818	2,574	0	0	3,458	0	2,906	0	679	3,491	3,550	0	0	2,944	55	55	31
Total	59,974	58,760	0	0	59,146	0	57,357	0	9,109	62,138	61,962	18	0	61,782	1,480	1,457	941

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Mar 31	2,577	168,446											
1	2,577	168,678	232	0	1,136	0	60	822	0	60	0	-82	
2	2,577	168,074	-604	0	1,392	0	56	1,800	0	56	0	-196	
3	2,576	167,882	-192	0	1,412	0	47	1,615	0	50	0	14	
4	2,576	167,921	39	0	1,344	0	40	1,363	0	50	0	68	
5	2,576	166,885	-1,036	0	1,263	0	38	2,270	0	50	0	-17	
6	2,574	165,346	-1,539	0	1,312	0	36	2,627	0	50	0	-210	
7	2,575	165,599	253	0	1,500	0	33	1,199	0	48	0	-33	
8	2,575	166,171	572	0	737	0	31	126	0	44	0	-26	
9	2,575	165,917	-254	0	1,730	0	31	1,975	0	42	0	2	
10	2,574	165,194	-723	0	1,336	0	29	2,035	0	42	0	-11	
11	2,574	164,407	-787	0	1,216	0	35	2,075	0	40	0	77	
12	2,572	162,722	-1,685	0	1,304	0	36	2,882	0	40	0	-103	
13	2,573	163,614	892	0	1,505	0	63	713	0	48	0	85	
14	2,574	164,890	1,276	0	1,433	0	123	210	0	69	0	-1	
15	2,575	165,866	976	0	1,189	0	114	150	0	131	0	-46	
16	2,575	166,324	458	0	1,489	0	138	947	0	109	0	-113	
17	2,574	165,232	-1,092	0	1,477	0	127	2,513	0	119	0	-64	
18	2,575	165,599	367	0	1,496	0	115	1,181	0	119	0	56	
19	2,573	163,614	-1,985	0	1,953	0	98	3,801	0	119	0	-116	
20	2,573	163,199	-415	0	1,925	0	83	2,152	0	99	0	-172	
21	2,575	165,574	2,375	0	2,593	0	64	276	0	89	0	83	
22	2,576	167,882	2,308	0	2,481	0	53	127	0	69	0	-30	
23	2,576	167,319	-563	0	3,281	0	49	3,845	0	60	0	12	
24	2,576	167,306	-13	0	3,281	0	43	3,201	0	50	0	-86	
25	2,576	167,012	-294	0	3,279	0	40	3,522	0	46	0	-45	
26	2,577	168,665	1,653	0	3,279	0	40	1,668	1	46	0	49	
27	2,576	167,728	-937	0	3,281	0	38	4,195	0	37	0	-24	
28	2,576	167,703	-25	0	3,280	0	36	3,226	0	27	0	-88	
29	2,576	167,652	-51	0	3,282	0	33	3,172	0	26	0	-168	
30	2,575	166,630	-1,022	0	2,574	0	31	3,458	0	26	0	-143	
Total				-1,816	0	58,760	0	1,760	59,146	1	1,861	0	-1,328

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation
(in acre-feet except as noted)

Capacity: 32,476 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Mar 31	1506.02	17,684								
1	1508.17	18,487	803	822	3	0	3	0	-19	
2	1509.16	18,862	376	1,800	2	0	2	1,410	-14	
3	1506.78	17,966	-897	1,615	2	0	2	2,483	-29	
4	1505.71	17,570	-396	1,363	2	0	2	1,750	-9	
5	1507.07	18,074	504	2,270	2	0	2	1,733	-33	
6	1512.20	20,041	1,967	2,627	2	0	2	694	34	
7	1515.16	21,225	1,185	1,199	2	0	2	0	-14	
8	1515.31	21,286	61	126	2	0	2	0	-65	
9	1514.08	20,789	-498	1,975	2	0	2	2,469	-4	
10	1509.30	18,916	-1,873	2,035	2	0	2	3,932	24	
11	1507.73	18,321	-595	2,075	5	0	5	2,641	-29	
12	1511.58	19,797	1,476	2,882	4	0	4	1,384	-22	
13	1513.42	20,524	727	713	35	0	35	0	14	
14	1513.55	20,573	49	210	31	0	31	0	-161	
15	1514.32	20,885	312	150	13	0	13	0	162	
16	1513.46	20,540	-345	947	10	0	10	1,212	-80	
17	1510.00	19,184	-1,356	2,513	7	0	7	3,912	43	
18	1506.37	17,814	-1,371	1,181	6	0	6	2,655	103	
19	1509.21	18,882	1,068	3,801	4	0	4	2,704	-29	
20	1508.70	18,687	-194	2,152	3	0	3	2,270	-76	
21	1509.25	18,897	209	276	3	0	3	0	-67	
22	1509.54	19,008	111	127	2	0	2	0	-16	
23	1513.17	20,425	1,417	3,845	2	0	2	2,416	-12	
24	1511.37	19,715	-709	3,201	3	0	3	3,970	60	
25	1511.04	19,587	-129	3,522	2	0	2	3,625	-26	
26	1507.03	18,059	-1,528	1,668	3	0	3	3,208	13	
27	1510.29	19,296	1,237	4,195	3	0	3	2,909	-49	
28	1510.46	19,362	66	3,226	3	0	3	3,205	45	
29	1510.82	19,501	139	3,172	3	0	3	3,037	4	
30	1511.67	19,832	331	3,458	2	0	2	3,149	22	
Total				2,148	59,146	165	0	165	56,768	-230

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Disposition of Natural Inflows		
				Natural	Project					
Mar 31	1500.65	292,553								
1	1499.93	291,039	-1,514	3	0	12	1,438	27	2	
2	1499.89	290,955	-84	2	1,410	10	1,440	18	2	
3	1500.33	291,880	925	2	2,483	8	1,472	12	2	
4	1500.35	291,902	22	2	1,750	7	1,599	8	2	
5	1500.42	292,069	167	2	1,733	7	1,626	0	2	
6	1499.86	290,892	-1,177	2	694	5	1,711	7	2	
7	1498.98	289,049	-1,843	2	0	5	1,774	10	2	
8	1498.14	287,295	-1,754	2	0	5	1,763	11	3	
9	1498.53	288,109	814	2	2,469	5	1,811	8	4	
10	1499.45	290,032	1,923	2	3,932	4	1,830	8	4	
11	1500.01	291,197	1,165	5	2,641	8	1,640	6	4	
12	1499.90	290,976	-221	4	1,384	6	1,685	6	4	
13	1499.26	289,635	-1,341	35	0	95	1,194	20	4	
14	1498.46	287,962	-1,673	31	0	98	1,584	135	4	
15	1497.66	286,296	-1,666	13	0	34	1,662	135	4	
16	1497.45	285,860	-436	10	1,212	25	1,730	26	4	
17	1498.45	287,942	2,082	7	3,912	17	1,833	26	4	
18	1498.83	288,728	786	6	2,655	13	1,804	26	4	
19	1499.29	289,697	969	4	2,704	8	1,856	27	3	
20	1499.38	289,886	189	3	2,270	7	1,971	27	3	
21	1498.42	287,879	-2,007	3	0	6	2,072	17	3	
22	1497.48	285,909	-1,970	2	0	5	1,869	17	3	
23	1497.77	286,525	616	2	2,416	6	1,925	17	3	
24	1498.69	288,443	1,918	3	3,970	6	2,048	7	3	
25	1499.53	290,200	1,757	2	3,625	6	1,902	8	2	
26	1500.21	291,627	1,427	3	3,208	7	1,784	8	2	
27	1500.70	292,659	1,032	2	2,909	6	1,732	8	2	
28	1501.33	293,987	1,328	2	3,205	2	1,920	8	2	
29	1501.89	295,172	1,185	2	3,037	2	1,950	8	2	
30	1502.45	296,359	1,187	3	3,149	2	1,945	7	0	
Total				3,806	163	56,768	427	52,570	648	
									85	
									-249	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

April 2012

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Rec.	Article 56C	Article 14B	Other	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		59,974						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Removed		1				
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07	(0 AF of flow through Gorman Creek Imp. Channel)	58,760						
29H	W3	Pyramid Lake		USFS			1				
				Pyramid Recreation (T300)	1						
				United WA (T300)	0						
29J	W4	Pyramid Dam	17.10	California State Park Piru Fish (T300)	0						
		Castaic Power Plant	25.82	(0 AF pumpback) 2/	59,146						
		Elderberry Forebay									
30 1/	W5	Forebay Dam	28.12				43	15,280	3/ 15,559		
		Castaic Lake		California State Park							
				Castaic Lake Recreation (T301)	43						
		Castaic Dam	31.47								
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	50,516		19,677	1,659	352		
				Castaic Lake WA 18", 24" & 54" (T303)	1,659						
				Castaic Lake WA Rio Vista T.P. (T304)	352						
				MWD-Ventura Co. WPD (T302)	0						
				Disposition of Natural inflows	648						
				Releases to Castaic Lagoon	85						
				Reach 30 Subtotal:	52,570	19,677	43	2,011	15,280	15,559	
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0						
		Castaic Lagoon Outlet	31.87		733						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ Withdrawal from flexible water programs.

Table 29. Silverwood Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 74,970 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project		Del. To Mojave W.A.	Natural To Mojave River				
Mar 31	3348.40	68,679												
1	3349.21	69,435	756	1,490	0	113	1	0	804	0	1	-41	0	
2	3348.93	69,173	-262	815	0	91	1	0	924	0	0	-243	0	
3	3349.15	69,379	206	1,197	0	76	1	0	1,062	0	0	-4	0	
4	3348.84	69,089	-290	1,453	0	66	1	0	1,688	0	0	-120	0	
5	3348.65	68,912	-177	1,649	0	67	1	0	1,827	0	0	-65	0	
6	3348.03	68,335	-577	1,493	0	48	1	0	1,992	0	0	-125	0	
7	3349.15	69,379	1,044	2,933	0	41	1	0	1,950	0	1	22	0	
8	3349.69	69,885	506	2,634	0	33	1	0	2,041	0	0	-119	0	
9	3350.00	70,176	291	2,298	0	28	1	0	1,668	0	0	-366	0	
10	3349.07	69,304	-872	1,665	0	23	0	1	2,735	0	0	176	0	
11	3349.52	69,725	421	2,403	0	50	0	0	2,196	0	1	165	0	
12	3349.69	69,885	160	2,402	0	40	0	0	2,218	0	0	-64	0	
13	3349.97	70,148	263	2,326	0	121	1	0	2,266	0	0	83	0	
14	3351.40	71,501	1,353	3,366	0	188	1	0	1,986	0	1	-213	0	
15	3352.55	72,599	1,098	3,077	0	145	1	0	2,061	0	0	-62	0	
16	3352.78	72,820	221	2,255	0	115	1	0	2,056	0	0	-92	0	
17	3352.69	72,734	-86	2,208	0	90	1	0	2,285	0	1	-97	0	
18	3352.78	72,820	86	2,096	0	70	1	0	2,103	0	0	24	0	
19	3352.78	72,820	0	2,396	0	53	1	0	2,222	0	0	-226	0	
20	3352.80	72,839	19	2,141	0	40	0	0	2,237	0	1	76	0	
21	3352.72	72,762	-77	2,254	0	34	0	1	2,384	0	0	20	0	
22	3353.03	73,060	298	2,647	0	30	1	0	2,266	0	0	-112	0	
23	3352.16	72,224	-836	678	0	28	1	0	1,833	0	1	293	0	
24	3350.30	70,458	-1,766	18	0	26	0	0	1,809	0	1	0	0	
25	3348.40	68,679	-1,779	17	0	24	0	0	1,731	0	1	-88	0	
26	3347.13	67,503	-1,176	513	0	33	1	0	1,648	0	60	-13	0	
27	3347.13	67,503	0	2,939	0	25	1	0	2,821	0	91	-51	0	
28	3347.36	67,715	212	3,433	0	16	0	0	3,111	0	91	-35	0	
29	3348.03	68,335	620	3,634	0	10	0	1	2,914	0	32	-77	0	
30	3348.73	68,986	651	3,550	0	8	1	0	2,944	0	1	39	0	
Total				307	61,980	0	1,732	21	3	61,782	0	284	-1,315	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

April 2012

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Mar 31	1562.72	73,953				
1	1562.80	74,103	150		84	
2	1562.66	73,840	-263		101	
3	1562.64	73,803	-37		101	
4	1562.66	73,840	37		104	
5	1562.66	73,840	0		104	
6	1562.66	73,840	0		105	
7	1562.53	73,597	-243		104	
8	1562.58	73,685	88		104	
9	1562.42	73,391	-294		105	
10	1562.50	73,541	150		105	
11	1562.58	73,691	150		104	
12	1562.58	73,691	0		105	
13	1562.66	73,840	149		104	
14	1562.66	73,840	0		104	
15	1562.55	73,634	-206		104	
16	1562.50	73,541	-93		118	
17	1562.50	73,541	0		100	
18	1562.50	73,541	0		95	
19	1562.50	73,541	0		94	
20	1562.42	73,391	-150		94	
21	1562.50	73,541	150		94	
22	1562.50	73,541	0		94	
23	1562.50	73,541	0		103	
24	1562.50	73,541	0		105	
25	1562.58	73,691	150		243	
26	1562.58	73,691	0		55	
27	1562.61	73,747	56		93	
28	1562.66	73,840	93		52	
29	1562.66	73,840	0		34	
30	1562.66	73,840	0		50	
Total			-113	4,104	2,962	-1,255

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

April 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Recreation	Article 56C	Transfer	Local	
	No.	Structure	Mile								
17E	40	Edmonston Pumping Plant	293.45		129,507						
	41		298.65	KCWA Tej.-Cas	Stub						
17F		Check No. 41	303.41								
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0						
		Check No. 42	304.99								
19	43	Alamo Powerplant	305.73	(Includes 57,357 AF generation, 0 AF plant bypass, and 9,109 AF Tehachapi Bypass)	66,466						
			306.71	AVEK 305th Street West (T287)	0						
			308.05	AVEK 294th Street West (T267)	0						
		Check No. 43	309.70								
	44		311.84	LADWP Connection	0						
			313.50	AVEK 245th Street West (T269)	0						
	45	Check No. 44	314.81								
	46		314.93	AVEK 235th Street West (T270)	0						
			315.57	AVEK 225th Street West (T271)	0						
		Check No. 45	319.74								
20A	47	Antelope Valley-East Kern WA Fairmont (T272)	323.19	Mojave Water Agency Fairmont (T272)	2,935						
					127						
		Check No. 46	323.84								
				Reach 19 Total:	3,062						
		Check No. 47	326.77								
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	24		24	1,423	36	797	
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed						
20B	49	Check No. 48	330.82								
	50	Check No. 49	335.93								
	51		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	1,423						
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	36						
			340.92	AVEK WA-Temp (T387)	0						
	52	Check No. 50	341.51								
	53	Check No. 51	342.06	AVEK WA-Temp (T386)	0						
	54		342.07	Antelope Valley-East Kern WA 30th Street West (T414)	0						
			343.74								
21	55		346.98	Palmdale WD (T276) Temp.	797	35	22	151	151	151	
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	57						
			348.17								
	56	Check No. 53	350.25								
	57	Check No. 54	352.70								
	58	Check No. 55	354.76								
	59		354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0						
			354.97	Palmdale WD (T276)	0						
			354.97	Palmdale WD (T391)	0						
22A	60		356.93								
			357.60	AVEK 95th Street East (T279)	0						
			357.72	AVEK 96th Street East (T280)	0						
			359.76	AVEK East Side Treatment Plant (T281)	151						

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

April 2012

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries								
	Beginning and Ending					Table A	Rec.	Article 56C	Trans-fer	Others	Purch. Pool A	Article 14B		
	No.	Structure	Mile											
22B	58	Pearblossom Pumping Plant	360.61		62,138			392	484	0	1,829	10,208		
	59	Check No. 59	366.09											
	60		366.50	AVEK Big Rock Siphon (T368)	0									
	Check No. 60		373.94											
	61	Check No. 61	379.00											
	62	Check No. 62	384.26											
	63		389.20	Mojave Water Agency White Road 24" & 42" (T282)	392									
	64	Check No. 64	395.10											
	65	Check No. 65	400.32											
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	484									
23	Check No. 66		403.41											
	Mojave Siphon		405.58	Las Flores Ranch Exchange	0									
24	Mojave Siphon Powerplant		405.65		61,962		3	1,829	26,615	1/ 3,425	1,463	2/ 2		
	Silverwood Lake		407.65	MWA CS DAM (T288)	0									
			407.65	California State Park										
			407.65	Silverwood (T288)	3									
	San Bernardino Intake Tunnel		407.70	Creastline-Lake Arrowhead WA State Project Water (T289)	0									
25	Devil Canyon Powerplant		412.73	Non-Project Water (T289)	0		179	5,100	2,437	1,463	476	993		
	Devil Canyon Afterbay Control Structures		412.73		61,782									
26A			412.88	MWD-Rialto (T290)	1,829		179	5,100	2,437	1,463	476	993		
			412.88	MWD-Rialto (T293)	18,733									
			412.88	MWD-Rialto (T294)	29,052									
			412.88	Desert Water Agency Transfer (T293)	0									
			412.88	Coachella Valley WD Transfer (T293)	0									
			412.88	MWD EBX-1 (T290)	0									
			412.88	MWD EBX-1 (T291)	0									
			412.88	San Gabriel Valley MWD (T290)	179									
			412.88	San Bernardino Valley MWD (T291)	1,463									
			412.88	San Bernardino Valley MWD (T407)	478									
EBX			412.88	San Gorgonio Pass WA (T413)	993									
Santa Ana Valley Pipeline		425.46				5,134	2,041	162	29	1,463	476			
		433.06	MWD-SC Box Springs (T295)	5,134										
		440.05	MWD-SC Perris Bypass Pipeline (T296)	2,041										
Lake Perris		442.00	MWD-SC (T297)	162		2,771	2,771	29	29	1,463	476			
		443.44	MWD-SC 54" & 78" (T299)	2,771										
		443.44	Calif. State Park											
		443.44	Lake Perris Recreation (T298)	29										
				MWD Total:	110,238		58,229	0	7,537	15,280	18,984	0	10,208	

1/ Waterbank recovery.

2/ Crafton Hills Reservoir construction water.

Table 32. Water Quality At Selected SWP Locations

April 2012

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	40	80	85	77	90	83	89	91	80
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.2
Bromide	mg/l	<0.01	0.02	0.23	0.19	0.24	0.21	0.24	0.24	0.24
Calcium	mg/l	8	10	27	23	27	25	31	29	26
Chloride	mg/l as C	1.0	12.0	79.0	63.0	80.0	75.0	73.0	64.0	71.0
Chromium	mg/l as C	<0.001	0.0	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Hardness	mg/l	36.000	64.000	136.000	113.000	139.000	124.000	135.000	120.000	113.000
Iron	mg/l	0.006	0.341	0.027	0.023	0.018	0.008	0.013	0.010	0.008
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	9	17	14	17	15	14	11	12
Manganese	mg/l	<0.005	0.087	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0.060	0.930	0.820	0.900	0.750	0.920	1.400	0.610
Organic Carbon, Dissolved	mg/l	NR	16	5	5	5	5	4	5	2
Organic Carbon, Total	mg/l as N	NR	18.000	5.500	5.800	5.400	4.600	4.600	4.400	3.300
Phosphate-Ortho	mg/l as P	<0.01	0.18	0.08	0.06	0.06	0.07	NR	0.49	0.02
Phosphorus-Total	mg/l	0	0.49	0.14	0.07	0.09	0.11	0.10	0.77	0.02
Selenium	mg/l	<0.001	<0.001	0.00	0.00	0.00	<0.001	0.00	0.00	<0.001
Sodium	mg/l	3.500	22.000	64.000	49.000	64.000	59.000	63.000	58.000	57.000
Specific Conductance	µS/cm	86	228	569	464	576	514	530	541	498
Sulfate	mg/l	2	10	62	44	60	53	54	58	41
Total Dissolved Solids	mg/l	54	151	322	267	328	296	298	307	274
Turbidity	NTU	3	53	12	4	4	4	3	5	<1
Zinc	mg/l	<0.005	<0.005	0	<0.005	<0.005	<0.005	0	0	<0.005

mg/l milligrams per liter

µS/cm microSiemens per centimeter

NTU - nephelometric turbidity units

µg/l micrograms per liter

NR - Not Reported

Table 33. Water Quality At Selected Delta Stations

April 2012

Date	Antioch Tides (feet above mean sea level)		Flow In CFS			Electrical Conductivity in millSiemens/cm									Cl in mg/l
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	5.37	4.17	40,091	40,091	30,732	0.25	0.23	0.17	0.16	0.23	0.26	0.51	0.67	0.60	49
2	5.08	3.68	37,380	38,735	28,742	0.25	0.17	0.17	0.16	0.23	0.25	0.59	0.67	0.77	48
3	5.45	3.94	33,881	37,117	27,895	0.24	0.16	0.17	0.16	0.23	0.25	0.53	0.72	0.72	47
4	5.69	3.98	33,972	36,331	28,064	0.23	0.16	0.16	0.16	0.22	0.24	0.50	0.79	0.64	48
5	5.60	3.82	30,936	35,252	25,383	0.23	0.16	0.16	0.16	0.22	0.24	0.51	0.84	0.64	47
6	5.69	3.65	26,538	33,800	22,356	0.23	0.16	0.16	0.16	0.22	0.24	0.57	0.87	0.67	48
7	5.84	3.76	24,274	32,439	20,301	0.23	0.17	0.16	0.16	0.22	0.23	0.55	0.79	0.68	48
8	6.22	4.06	21,280	31,044	18,307	0.22	0.23	0.16	0.16	0.22	0.23	0.53	0.88	0.64	48
9	6.43	4.29	19,141	29,721	16,445	0.22	0.28	0.17	0.17	0.22	0.23	0.53	0.88	0.60	49
10	6.69	4.45	18,158	28,565	15,467	0.23	0.34	0.17	0.17	0.22	0.23	0.49	0.86	0.56	49
11	6.52	4.38	17,515	27,560	14,707	0.24	0.42	0.17	0.17	0.22	0.23	0.48	0.87	0.54	48
12	6.23	4.33	17,474	26,720	14,443	0.24	0.38	0.18	0.17	0.22	0.22	0.46	0.81	0.52	48
13	6.14	4.59	23,399	26,465	16,691	0.24	0.34	0.18	0.17	0.22	0.22	0.43	0.43	0.51	47
14	5.56	4.14	35,041	27,077	22,434	0.23	0.20	0.18	0.17	0.23	0.22	0.46	0.33	0.50	47
15	5.33	3.90	42,542	28,108	31,060	0.23	0.16	0.18	0.17	0.24	0.22	0.47	0.47	0.50	47
16	5.41	3.86	44,838	29,154	33,669	0.23	0.15	0.17	0.17	0.24	0.22	0.46	0.60	0.48	48
17	5.46	3.88	42,257	29,925	31,203	0.23	0.14	0.16	0.17	0.25	0.22	0.47	0.68	0.48	48
18	5.67	3.96	32,892	30,089	26,040	0.23	0.14	0.16	0.17	0.25	0.23	0.48	0.76	0.49	49
19	5.74	3.91	25,304	29,838	21,385	0.23	0.14	0.17	0.17	0.25	0.23	0.49	0.81	0.51	48
20	5.67	3.88	22,172	29,454	18,673	0.23	0.14	0.17	0.17	0.26	0.23	0.51	0.83	0.53	49
21	5.85	4.04	20,889	29,046	17,432	0.23	0.16	0.17	0.17	0.26	0.23	0.52	0.86	0.52	49
22	6.10	4.40	21,490	28,703	16,893	0.23	0.22	0.18	0.17	0.26	0.24	0.52	0.87	0.51	49
23	6.57	4.74	21,041	28,370	16,250	0.23	0.40	0.18	0.17	0.25	0.24	0.50	0.82	0.52	47
24	6.30	4.36	20,240	28,031	15,661	0.24	0.23	0.19	0.17	0.26	0.24	0.52	0.78	0.52	47
25	6.06	4.41	22,763	27,820	17,988	0.24	0.21	0.19	0.17	0.26	0.25	0.52	0.77	0.54	47
26	6.19	4.51	27,263	27,799	20,453	0.24	0.23	0.19	0.18	0.26	0.25	0.52	0.77	0.54	44
27	5.40	3.98	28,259	27,816	20,671	0.24	0.16	0.18	0.18	0.26	0.25	0.53	0.77	0.54	46
28	5.07	3.95	32,003	27,966	23,554	0.25	0.16	0.18	0.18	0.26	0.25	0.51	0.81	0.55	46
29	5.20	4.04	35,400	28,222	27,017	0.24	0.16	0.17	0.17	0.26	0.25	0.52	0.81	0.54	46
30	5.56	4.10	34,018	28,415	26,079	0.25	0.19	0.15	0.17	0.25	0.26	0.51	0.79	0.54	47

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

April 2012

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 21, 2012	Triclopyr MCPP 2,4-D Diuron	0.20 0.20 1.40 0.35
California Aqueduct At Banks Pumping Plant	March 21, 2012	Diuron	0.27
O'Neill Forebay Outlet Check 13	March 20, 2012	Diuron	0.38
Delta Mendota Canal At McCabe Road	March 20, 2012	Diuron	0.35
California Aqueduct Near Kettleman City (Check 21)	March 20, 2012	Simazine	0.04
California Aqueduct At Near Highway 119 (Check 29)	March 21, 2012	Diuron	1.70
California Aqueduct at Tehachapi Afterbay (Check 41)	March 21, 2012	Diuron	1.20
California Aqueduct At Devil Canyon Headworks	March 21, 2012	Diuron Diuron	0.39 0.62

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load	April 2012
	Generation	Load			Total Load	SWP Load			
1	1,754,324	4,906	2,910	0	611,016	611,016	212,428	899	
2	1,935,714	4,961	3,351	4,200	610,840	610,840	213,759	916	
3	1,535,116	4,928	395	372	411,432	411,432	248,408	920	
4	1,309,022	2,541	1,257	4,549	163,184	163,184	258,912	903	
5	2,215,191	2,310	3,106	5,714	612,176	612,176	258,678	895	
6	2,167,297	4,620	2,441	1,057	613,440	613,440	272,894	910	
7	755,359	7,711	3,924	5,118	614,024	614,024	259,612	909	
8	625,768	8,470	3,688	4,060	1,165,488	1,165,488	251,849	904	
9	1,805,243	3,795	3,062	2,390	1,215,664	1,215,664	263,668	900	
10	1,883,046	3,872	3,678	4,286	1,215,336	1,215,336	253,886	894	
11	2,983,299	3,388	749	360	966,992	966,992	244,047	917	
12	1,679,931	6,358	2,583	6,779	719,672	719,672	271,702	918	
13	4,622,970	3,773	1,598	3,328	615,144	615,144	221,764	911	
14	1,369,995	3,201	1,628	3,935	1,214,680	1,214,680	232,758	903	
15	983,235	8,008	1,925	5,843	1,214,024	1,214,024	250,284	882	
16	2,403,984	3,003	398	389	1,216,288	1,216,288	352,937	6,571	
17	1,709,774	4,499	2,544	5,736	1,064,056	1,064,056	402,258	11,306	
18	833,789	5,775	2,344	4,563	1,218,456	1,218,456	464,657	10,265	
19	1,487,772	4,642	2,749	4,483	1,215,120	1,215,120	471,097	12,830	
20	1,492,073	3,762	412	409	1,000,896	1,000,896	512,513	10,270	
21	1,487,024	4,378	3,236	7,283	894,520	894,520	489,140	10,291	
22	1,500,917	7,150	1,976	6,404	633,344	633,344	424,623	10,310	
23	2,192,113	5,962	3,938	9,070	346,848	346,848	492,495	10,265	
24	278,674	6,501	4,107	10,087	237,048	237,048	486,486	10,258	
25	1,509,618	6,864	3,110	8,155	381,144	381,144	498,872	8,442	
26	1,500,543	9,537	5,122	10,964	385,784	385,784	498,628	9,601	
27	1,126,752	4,884	3,877	10,657	381,520	381,520	517,650	11,636	
28	717,519	10,373	3,972	10,032	381,256	381,256	490,223	10,959	
29	540,573	7,920	4,049	9,271	381,880	381,880	490,433	10,989	
30	1,021,273	5,489	3,801	9,642	490,424	490,424	503,245	9,405	
Total	47,427,908	163,581	81,929	159,136	22,191,696	22,191,696	10,809,904	166,977	

Table 36. San Luis Field Division Energy Data

(in kWh)

April 2012

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load /1	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	535,615	367,615	0	0	1,280,785	1,280,785
2	504,862	336,862	0	0	1,278,937	1,278,937
3	334,395	262,395	0	0	647,922	23,922
4	896,956	824,956	1,400,751	1,400,751	11	11
5	877,333	805,333	2,050,873	2,050,873	0	0
6	884,336	812,336	2,030,424	2,030,424	0	0
7	853,832	781,832	1,835,229	1,835,229	1,947	1,947
8	782,006	710,006	0	0	1,282,578	34,578
9	518,033	446,033	407,726	407,726	431,596	15,596
10	868,369	796,369	971,861	971,861	231	231
11	969,376	897,376	0	0	21,637	21,637
12	729,248	561,248	0	0	22,253	22,253
13	631,703	463,703	1,505,515	677,515	5,643	5,643
14	505,462	337,462	694,683	188,683	538,197	538,197
15	512,865	344,865	0	0	1,818,762	1,314,762
16	558,252	390,252	0	0	1,245,068	237,068
17	658,465	394,465	0	0	20,614	20,614
18	637,864	373,864	0	0	20,317	20,317
19	768,474	504,474	0	0	20,339	20,339
20	894,510	630,510	974,985	-129,015	33	33
21	970,661	706,661	970,420	970,420	0	0
22	1,112,648	848,648	970,695	970,695	0	0
23	933,444	669,444	974,490	974,490	0	0
24	1,017,117	753,117	1,752,993	768,993	0	0
25	1,034,570	750,570	2,001,483	1,017,483	0	0
26	1,136,489	852,489	2,959,187	1,975,187	0	0
27	1,608,482	1,324,482	2,951,696	1,967,696	0	0
28	1,523,675	1,239,675	2,936,967	1,952,967	0	0
29	1,292,495	960,495	2,908,598	1,924,598	0	0
30	1,262,957	930,957	2,849,605	1,865,605	0	0
Total	25,814,495	20,078,495	33,148,181	23,822,181	8,636,870	4,836,870

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

April 2012

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	17,404	45,362	35,810	34,089	37,132	732,616	835,799	1,832,457	6,960,762
2	15,973	40,519	32,301	29,631	32,176	703,994	753,349	1,639,759	6,081,642
3	30,036	79,605	28,850	27,740	30,452	707,940	727,495	1,562,308	5,379,372
4	30,806	80,929	32,288	29,532	32,179	845,136	829,183	1,785,553	6,339,789
5	28,925	75,348	33,861	31,711	34,033	861,030	884,909	1,929,169	6,986,169
6	40,807	104,984	37,219	36,021	40,069	945,589	957,434	2,099,999	7,756,533
7	32,135	85,223	36,535	33,086	35,764	1,125,376	1,185,790	2,652,386	9,891,693
8	19,497	51,877	40,890	38,092	41,726	1,156,853	1,254,551	2,795,595	10,404,504
9	20,340	53,701	46,316	44,066	46,453	898,438	996,273	2,229,557	8,076,699
10	24,345	61,958	52,210	48,541	53,607	932,999	992,785	2,156,803	7,571,043
11	24,590	65,045	35,280	33,370	35,495	1,120,770	1,168,765	2,603,183	9,428,805
12	20,143	52,098	35,778	33,118	36,406	994,171	1,157,737	2,561,361	9,150,408
13	14,257	39,494	32,749	31,278	34,023	992,993	1,142,433	2,530,770	9,310,140
14	6,006	14,925	33,432	30,930	32,993	1,062,655	1,303,875	2,953,049	11,068,191
15	9,965	25,949	32,819	31,627	34,385	1,114,994	1,332,641	2,981,836	11,006,685
16	16,205	41,983	38,266	34,773	38,009	975,173	1,076,548	2,454,298	8,927,253
17	34,617	89,557	25,725	24,960	26,833	922,928	1,091,374	2,436,148	9,116,145
18	28,657	76,581	40,034	37,333	41,359	822,928	1,025,609	2,321,517	8,679,987
19	17,745	45,060	42,405	40,032	43,299	875,203	1,034,613	2,292,917	8,567,937
20	17,336	45,563	38,681	36,291	39,007	1,007,672	1,068,467	2,334,739	8,669,754
21	11,455	31,163	43,420	40,094	43,371	1,347,433	1,475,987	3,299,439	12,262,347
22	30,379	70,360	55,152	51,151	55,729	1,491,948	1,675,669	3,737,679	13,799,349
23	33,204	81,092	45,958	42,367	47,282	1,205,413	1,134,115	2,500,388	8,866,962
24	34,370	85,068	36,524	34,396	36,428	955,534	965,828	2,092,376	7,375,698
25	35,148	90,446	50,629	48,235	52,923	954,158	927,428	2,017,917	7,282,899
26	35,149	90,806	29,550	27,245	30,877	1,161,085	1,165,635	2,568,621	9,279,927
27	37,623	94,243	36,279	33,638	36,074	1,673,143	1,768,653	3,890,722	14,722,074
28	32,511	82,698	34,369	31,334	33,475	1,815,865	1,939,093	4,340,677	15,974,307
29	28,833	72,168	50,592	46,879	52,045	1,839,163	1,985,465	4,461,325	16,658,703
30	19,022	46,803	38,826	36,633	39,641	1,647,479	1,775,837	3,960,968	14,567,877
Total	747,483	1,920,607	1,152,747	1,078,192	1,173,242	32,890,680	35,633,340	79,023,516	290,163,654

Table 38. Southern Field Division Energy Data

(in kWh)

April 2012

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	405,714	642,373	1,200,000	176,986	857,428	1,030,050	112,478	25,375	34,808	4,250
2	347,556	805,297	1,200,000	93,151	833,794	1,187,273	60,510	32,211	45,660	4,323
3	361,337	823,136	1,200,000	102,703	652,925	1,349,071	91,907	31,310	44,043	4,320
4	364,917	785,770	1,200,000	175,159	1,021,511	2,134,055	110,649	25,549	34,915	4,343
5	353,535	729,548	1,200,000	200,440	1,051,287	2,297,455	133,152	25,510	34,879	4,337
6	318,293	759,329	1,200,000	227,596	1,106,610	2,505,431	113,160	25,350	34,884	4,020
7	351,515	856,840	1,200,000	330,084	1,954,947	2,459,444	227,470	32,745	45,697	4,387
8	414,542	420,150	1,200,000	324,350	1,748,631	2,579,137	196,300	35,089	49,386	4,405
9	434,574	986,858	1,392,000	270,183	1,574,462	2,626,909	166,082	25,669	35,353	4,438
10	352,208	790,908	1,392,000	204,016	1,064,531	2,908,962	125,453	25,309	34,998	4,358
11	381,547	709,665	1,392,000	314,401	1,702,891	2,768,634	181,655	25,206	34,917	4,245
12	350,809	744,185	1,392,000	316,042	1,528,472	2,790,022	167,806	32,033	45,082	4,242
13	347,031	833,431	1,392,000	248,920	1,680,467	2,834,791	175,415	35,094	49,269	4,219
14	381,749	836,371	1,392,000	162,850	2,172,161	2,499,264	259,653	27,576	38,265	4,208
15	415,605	685,284	1,392,000	329,782	2,006,758	2,592,616	237,699	25,404	34,915	4,241
16	457,086	870,745	1,392,000	285,981	1,437,847	2,590,168	165,517	27,854	38,488	4,125
17	408,618	856,778	1,392,000	266,202	1,503,344	2,878,780	156,046	35,030	49,456	4,091
18	350,654	855,527	1,392,000	226,560	1,606,959	2,635,866	150,054	32,649	45,853	4,347
19	432,136	1,103,212	1,392,000	0	1,519,796	2,770,765	168,619	25,461	35,044	4,632
20	432,932	1,104,249	1,392,000	147,984	1,386,867	2,785,385	142,919	25,658	35,153	4,599
21	722,129	1,473,514	3,048,000	283,231	1,518,200	2,980,800	152,115	25,487	35,125	4,478
22	893,201	1,422,206	3,048,000	318,985	1,807,425	2,827,735	195,621	32,640	45,940	4,476
23	827,915	1,816,776	3,048,000	103,609	498,792	2,285,996	45,266	29,009	40,451	4,333
24	697,895	1,814,030	3,048,000	29,594	0	2,291,177	0	25,478	34,884	4,373
25	785,507	1,810,112	3,048,000	42,037	0	2,185,603	0	37,184	45,500	4,399
26	903,273	1,808,833	3,048,000	95,008	458,282	2,078,762	40,067	42,470	49,257	4,324
27	808,697	1,810,436	3,048,000	342,412	1,961,748	3,473,543	239,740	39,570	49,383	4,369
28	863,940	1,809,645	3,048,000	331,906	2,335,710	3,833,201	278,982	33,102	46,598	4,410
29	896,690	1,810,388	3,048,000	331,120	2,485,202	3,618,601	295,079	25,182	35,067	4,437
30	740,662	1,460,911	2,472,000	327,886	2,336,833	3,673,055	284,810	32,597	45,891	4,485
Total	15,802,265	33,236,506	56,208,000	6,609,177	41,813,881	77,472,551	4,674,222	898,799	1,229,163	130,217

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.